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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/720,024	11/21/2003	Matthew G. Thorn	C51757 0680	3206	
35395	7590 09/29/2006		EXAM	EXAMINER	
WOMBLE CARLYLE SANDRIDGE & RICE, PPLC			LEE, RIP A		
CHEVRON PHILLIPS CHEMICAL COMPANY LP attn: PATENTDOCKETING 32ND FLOOR		ART UNIT	PAPER NUMBER		
P.O. BOX 7037			1713		
ATLANTA, (GA 30357-0037		DATE MAILED: 09/29/2006	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
, Office Antique Comments	10/720,024	THORN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Rip A. Lee	1713				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may will apply and will expire SIX (6) Mo c, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on June	29, 2006.					
2a) This action is FINAL . 2b) ☐ This	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1-5,9-28 and 30-32 is/are pending in 4a) Of the above claim(s) is/are withdray 5) ⊠ Claim(s) 23-28 and 32 is/are allowed. 6) ⊠ Claim(s) 1-5,9-22,30 and 31 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to drawing(s) be held in abey tion is required if the drawir	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in rity documents have bee u (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application 				

Application/Control Number: 10/720,024 Page 2

Art Unit: 1713

DETAILED ACTION

This office action follows a request for continued examination (RCE) under 37 § C.F.R. 1.114, filed on June 29, 2006. Claims 1-5, 9-28, and 30-32 are pending.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-5, 9-22, and 30 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claims are drawn to a catalyst substantially free of organoaluminum $Al(X^5)_n(X^6)_{3-n}$. There is no disclosure in the specification that supports this notion. In fact, on page 5, lines 10-15, the inventors indicate that use of organoaluminum compounds are a viable feature of the invention.

Claim Rejections - 35 USC § 102/35 USC § 103

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

[†] Ex Parte Grasselli, 231 USPQ 393 (Bd. App. 1983), aff'd mem., 738 F.2d 453 (Fed. Cir. 1984). Any claim containing a negative limitation which does not have basis in the original disclosure are rejected under 35 U.S.C. 112, first paragraph for failing to comply with the written description requirement. See MPEP § 2173.05(i).

Application/Control Number: 10/720,024 Page 3

Art Unit: 1713

4. Claims 1-4, 30 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Hawley et al. (U.S. 6,667,274).

Examples 51 and 52 disclose a catalyst substantially free of organoaluminum comprising Me₂Si(Ind)₂ZrCl₂ / Me₂Si(Me-Ind)₂ZrCl₂ and chlorided, zinc-containing alumina.

- 5. Claims 1, 2, 4, 18-22, 30, and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by McDaniel *et al.* (U.S. 6,376,415 and U.S. 6,395,666) for the same reasons set forth in previous office actions. Rejections remain in force until the rejection of claims under 35 U.S.C. 112, 1st paragraph has been overcome.
- 6. Claims 1-4, 20-22, 30, and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Hawley *et al.* (U.S. 6,667,274) for the same reasons set forth in previous office actions. Rejections remain in force until the rejection of claims under 35 U.S.C. 112, 1st paragraph has been overcome.

Allowable Subject Matter

- 7. Where the rejection of claims under 35 U.S.C. 112, 1st paragraph is overcome, the rejection of claims 1-4, 30 and 31, as indicated in paragraph 4 (*supra*) would remain in force. For claims drawn to catalyst substantially free of organoaluminum, Hawley *et al.* would not disclose or make obvious the subject matter of dependent claims 5-22.
- 8. As indicated in the previous office action, the subject matter of claims 23-28 and 32 remains allowable over the cited references.

Application/Control Number: 10/720,024 Page 4

Art Unit: 1713

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rip A. Lee whose telephone number is (571)272-1104. The examiner can be reached on Monday through Friday from 9:00 AM - 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reached at (571)272-1114. The fax phone number for the organization where this application or

proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on the access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

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September 2, 2006

LING-SUI CHO!
PRIMARY EXAMINER

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